

WEST VIRGINIA INTEGRATED BEHAVIORAL HEALTH CONFERENCE

Dementia (or whatever you call it)

Robert W. Keefover, M.D. – Physician Director, BBHHF



Merriam-Webster Dictionary: "DEMENTIA"

1. Mad, Insane



2. Suffering from or exhibiting cognitive dementia



Merriam-Webster Dictionary: "DEMENTIA"





DSM-IV

"DEMENTIA"





DSM-III R: "DEMENTIA"

Acquired:

1. Short- and long-term memory impairment

+

- 2. Impairment in abstract thinking, judgment, other higher cortical function or personality change
- 3. Cognitive disturbance interferes significantly with work, social activities or relationships with others
- 4. These cognitive changes do not occur exclusively in the setting of delirium

DSM-5: Neurocognitive Disorder

Definition:

Acquired:

Cognitive impairment in domains such as:

Memory (amnesia)

Language (aphasia)

Execution of purposeful movement (apraxia)

Recognition/familiarity (agnosia)

Visuospatial function (topographical disorientation)

Self-control/management (executive function impairment)

Mild NCD: 1 or more minor impairments, independent

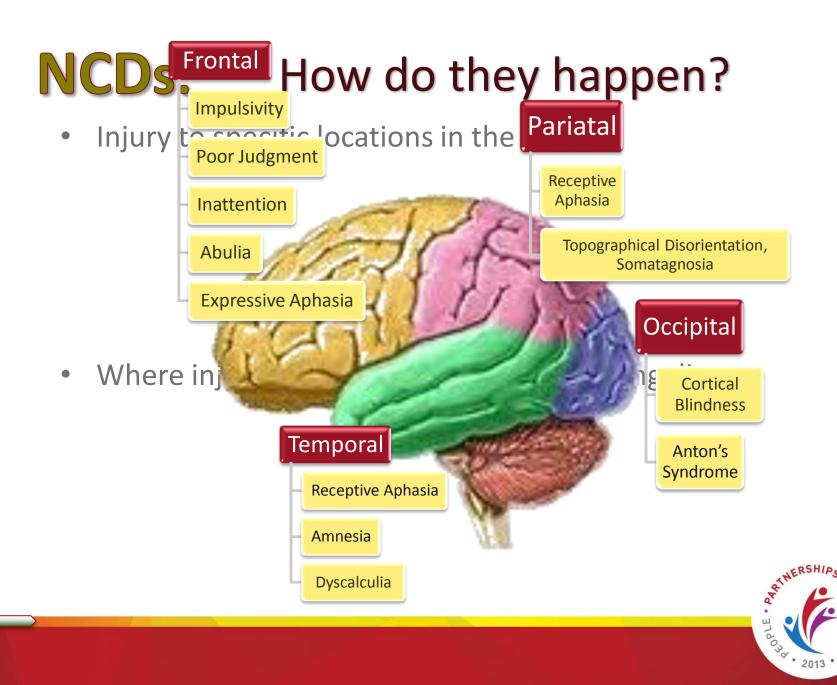
Major NCD: 1 or more <u>significant</u> impairments, independence lost



DSM-5: Why no dementia?

- Move away from "dementia's" negative connotation
- Better distinguish disorders in which cognitive impairment is the primary feature
- More accurately reflect the diagnostic process:
 - 1. Explore symptoms
 - 2. Identify diagnostic syndrome(s)
 - 3. Find the cause





NCDs: Common Dementia D

All Others Parkinson's Disease Fronto-te poral Lewy Bod • Maybe as many as 100 Der other conditions can 25% eventually FT produce the syndrome New in D¹ develop dementia Pick's Dise se in LBD of dementia • 2nd most tommon DSM-IV-TR Overlaps: AD & PD Mixed AD/VaD AD VaD

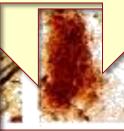
AD:

What's the problem?

- Misshapen malfunctioning cellular transport tubes
- Twisting and kinking occur due to abnormal "Tau" protein
- No longer deliver nutrients and remove waste from distant parts of neuron







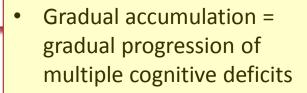
- Abnormally formed protein produced in neurons
- Excessive production or impaired clearing leads to accumulation
- Cause or effect? (Diabetes Type III ?)
- Toxic to nearby brain cells



VaD: What's the problem?

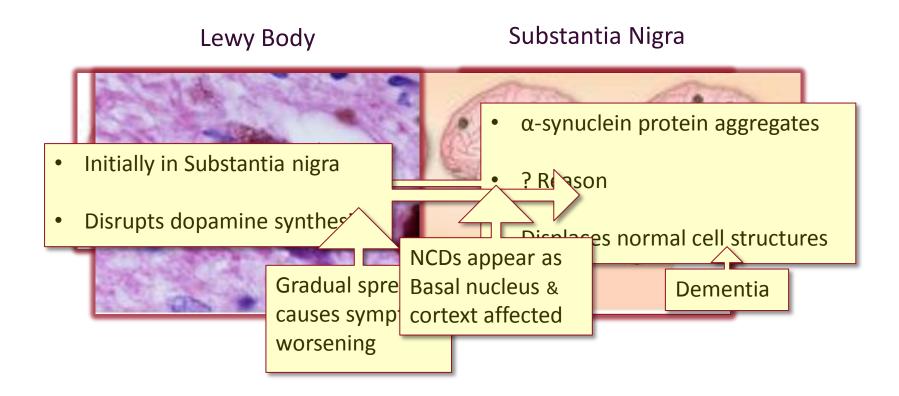
- Tiny vessels = small injury
- Affects deep brain areas
- Slight or no immediate signs or symptoms

- Larger vessel = Larger injury
 - Mostly outer portions affected
 - mediate signs & symptoms
- Isolated cognitive impairment



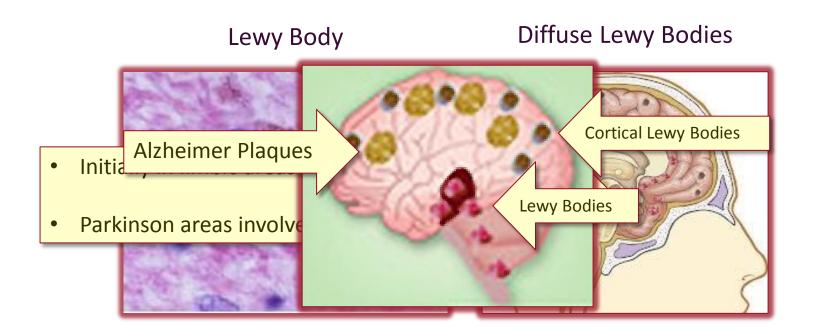


PD: What's the problem?





LBD: What's the problem?





FTD:

What's the problem?

Pick Bodies

Frontal & Temporal Lobe Atrophy

- Shrinking of brain tissue in areas controlling memory, emotions, and executive functions
- Pick's Disease (Tau 3R predominates) in DSM-IV-R
- Slightly more common in women

- Tangled tau protein aggregates
- The tay variant that predominates determ
 the form of FTD
- All are are
- No known genetic component



Other DSM Dementias:

- Autosomal dominant mutation of Huntingtin gene (50% inheritance)
- Degeneration of cells in basal ganglia striatum

Prion Disease

- Violent brain movement snaps neuron connections leading to "retraction balls"
- Longer frontal lobe-directed fibers most vulnerable

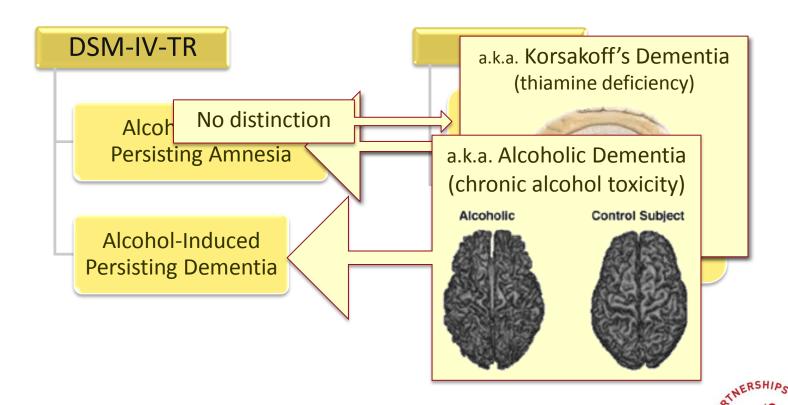
Huntington's Disease

- Widespread viral-induced neurotoxins kill neurons
- Fungal lesions, tumors, and other masses also cause focal NCDs
 - Non-viral infectious agents cause "spongiform" injury
 - tzfeld-Jacob Disease in
 -IV-TR is human form of
 I ad Cow Disease



Other DSM Dementias:

Substance-Medication Induced: Alcohol



Clinical Features:

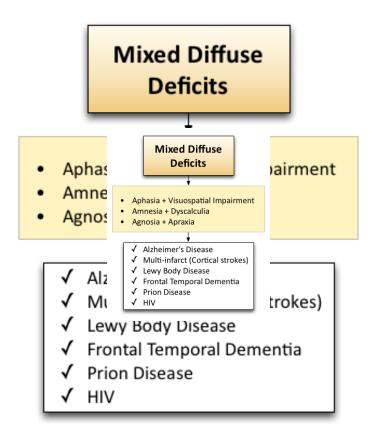
Depend on:

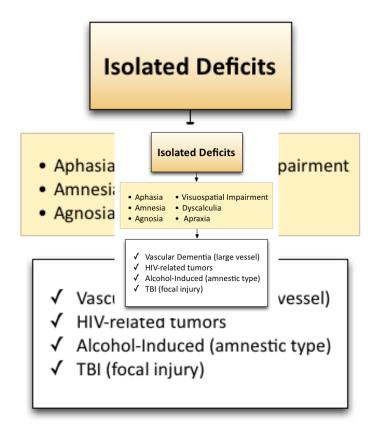
- Underlying Disease
 - Brain region(s) most affected
 - Diffuse v. focal injury
 - Rapidity of advancement
- Advancement Stage
 - Even global disease may be localized initially



Clinical Features:

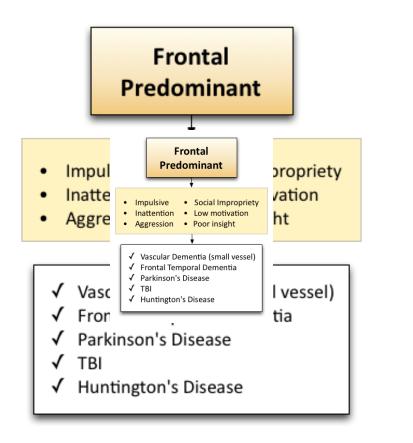
Symptom Patterns

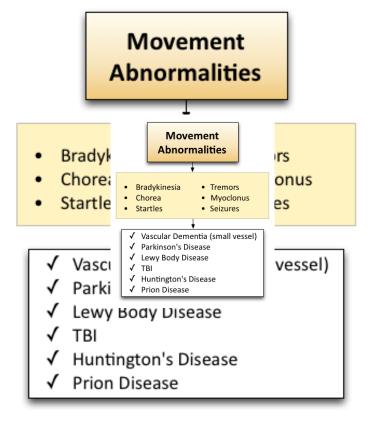






Clinical Features: Symptom Patterns







	(
199	ari	mir
	9 1 61	

Family Questionnaire

	Caregiver	Rating

Problem		Caregiver Rating		
	0	1	2	

1. Scre

Repeated Questioning Sometimes Frequent N/A None Forgets appointments, None Sometimes Frequent N/A family events, etc. Trouble writing checks, Frequent Sometimes N/A None paying bills

2. Ass€

Difficulties shopping None Sometimes Frequent N/A independently

None

Fails to follow medication instructions

Gets lost walking or

Frequent Sometimes N/A None

3. Diag

driving in familiar places

Sometimes

Frequent

Score of 4 or greater suggests need for further evaluation

Any Montal Hoolth/Medical Person

is:

0

N/A

riately dressed, dirty

r misses

vrong time/day)

ght loss or vague

ress

giver to answer

him/her

personal strain, patient



Other Tools:

Alzheimer's Association:

"Tools for Early Identification, Assessment, and Treatment of People with Alzheimer's Disease and Dementia"

alz.org/national/documents/brochure_toolsforidassesstreat.pdf



Questions/Comments:



